	Application No.	Applicant(s)	/
Notice of Allowability	00/004 400		\mathcal{I}
	09/894,186 Examiner	CHAN ET AL.	/_
		Art Unit	
	Matthew J Song	1765	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIC of the Office or upon petition by the applicant. See 37 CFR 1.313	or other appropriate of	SED in this application. If not included	
1. This communication is responsive to 6/24/2004.			
2. The allowed claim(s) is/are <u>1-13</u> .			
3. The drawings filed on 17 September 2001 are accepted by	the Examiner.		
4. Acknowledgment is made of a claim for foreign priority und a) All b) Some* c) None of the: 1. Certified copies of the priority documents have the certified copies of the	peen received. Deen received in Apploarments have been received in Apploarments have been received in Apploarments have been received. This communication to this application of this application ed. Note the attached reason(s) why the oast peep submitted. The submitted is a person of the submitted in the submitted in the submitted in the submitten in the submi	ication No ceived in this national stage application to file a reply complying with the required EXAMINER'S AMENDMENT or NOT ath or declaration is deficient. Eview (PTO-948) attached attached on the drawings in the front (not the back of CFR 1.121(d).	rements TICE OF
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FO 	of BIOLOGICAL M R THE DEPOSIT OF	ATERIAL must be submitted. Note BIOLOGICAL MATERIAL.	the
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice o	f Informal Patent Application (PTO-15	<i>i</i> 2)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🗌 Interviev	v Summary (PTO-413).	,
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date	Paper f 7. ☐ Examine	No./Mail Datè ″ er's Amendment/Comment	ર
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examine	er's Statement of Reasons for Allowan	ce
of Biological Material	9. 🗌 Other		
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		NADINE G. NORTON SUPERVISORY PATENT/EXAMI	Wer
U.S. Patent and Trademark Office		The state of the s	
PTOL-37 (Pay 4 04)	of Allowability	Part of Paper No./Mail	Date 04101

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/24/2004 has been entered.

Allowable Subject Matter

- 2. Claims 1-13 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: The closest prior art references are Robinson et al (US 4,001,076) and Dugger (US 3,933,573). Robinson et al teaches producing a thin film with a graded composition through its thickness by slowly cooling the temperature of a growth solution (Abstract). Dugger teaches the degree of supersaturation can be changed by changing the solution temperature or by changing the pressure in the solution. The prior art does not teach or suggest compositionally grading an epitaxial layer by varying the pressure to change the degree of supersaturation during growth to affect the growth of the epitaxial layer.

Referring to claim 13, the closest prior art references are Cook (US 4,519,871) and Dugger (US 3,933,573). Cook teaches two different solutions are employed to form epitaxial layers of two different compositions on a substrate and cooling the solutions in order to develop Art Unit: 1765

a condition of supersaturation (col 1, ln 20-65). Dugger teaches the degree of supersaturation can be changed by changing the solution temperature or by changing the pressure in the solution (col 3, ln 1-30). The cited prior art does not teach varying the pressure in the chamber between growth of the first epitaxial layer and the at least one further growth solution so as to change the degree of supersaturation of the at least one further growth solution to affect the growth of the at least one further epitaxial layer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew J Song whose telephone number is 571-272-1468. The examiner can normally be reached on M-F 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on 571-272-1465. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Matthew J Song Examiner Art Unit 1765

MJS

NADINE G. NORTON SUPERVISORY PATENT EXAMINER